

**PATENT** 

# HE UNITED STATES PATENT AND TRADEMARK OFFICE PATENT OPERATIONS

Art Unit:

2631

Applicants:

Geiger et al.

Serial No:

10/636,149

Filed:

August 7, 203

Title:

DEVICE AND METHOD FOR SCALABLE CODING AND DEVICE AND

METHOD FOR SCALABLE DECODER

Charlotte, North Carolina May 24, 2005

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

#### **CERTIFICATE OF MAILING**

I hereby certify that this paper is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on: May 24, 2005.

Lisa Camann

DOUGHERTY, CLEMENTS, HOFER & BERNARD

1901 Roxborough Road, Suite 300 Charlotte, North Carolina 28211

Tel: 704/366-6642

May 24, 2005

Date

Docket 3827



# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE PATENT OPERATIONS

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#### **SUBMISSION OF MISSING DOCUMENT**

Sir:

Please enter into the file of the subject application the following enclosed document:

1. English translation of the International Preliminary Examination Report.

Respectfully submitted,

Customer Number

22474

Ralph H. Dougherty Attorney for Applicants Registration No. 25,851

DOUGHERTY, CLEMENTS, HOFER & BERNARD

1901 Roxborough Road, Suite 300 Charlotte, North Carolina 28211 Telephone: (704) 366-6642

Docket 3827

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#### From the INTERNATIONAL BUREAU

## PCT

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY
EXAMINATION REPORT

(PCT Rule 72.2)

To:

SCHOPPE, Fritz Schoppe, Zimmermann, Stöckeler & Zinkler Postfach 246

82043 Pullach bei München

ALLEMAGNE



Date of mailing (day/month/year)
14 April 2005 (14.04.2005)

Applicant's or agent's file reference FH030801PCT

International application No. PCT/EP2003/008623

**IMPORTANT NOTIFICATION** 

International filing date (day/month/year) 04 August 2003 (04.08.2003)

Applicant

FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V. et al

#### 1. Transmittal of the translation to the applicant.

The International Bureau transmits herewith a copy of the English translation made by the International Bureau of the international preliminary examination report established by the International Preliminary Examining Authority.

#### 2. Transmittal of the copy of the translation to the elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following elected Offices requiring such translation:

AZ, CA, CH, CN, CO, GH, KG, KP, KR, MK, MZ, RU, TM

The following elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

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#### 3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report.

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Ellen Moyse

Facsimile No.+41 22 740 14 35

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Form PCT/IB/338 (July 1996)

# Translation

### PATENT COOPERATION TREATY



## **PCT**

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference FH030801PCT	FOR FURTHER ACT	Trommany Examination 200 (Contraction of Contraction of Contractio				
International application No. PCT/EP2003/008623	International filing date ( 04 August 2003 (		Priority date (day/month/year) 09 August 2002 (09.08.2002)			
International Patent Classification (IPC) or national classification and IPC G10L 19/02						
Applicant FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.						
<ol> <li>This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</li> </ol>						
2. This REPORT consists of a total of	5 sheets, ir	ncluding this cover s	heet.			
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						
These annexes consist of a to	otal ofsh	eets.	·			
3. This report contains indications rela	ating to the following item	s:				
I Basis of the report	I Basis of the report					
II Priority						
III Non-establishment	of opinion with regard to	novelty, inventive st	ep and industrial applicability			
IV Lack of unity of in	vention		·			
57 Personed statemer	TV					
VI Certain documents	VI Certain documents cited					
VII Certain defects in	VII Certain defects in the international application					
VIII Certain observations on the international application						
Date of submission of the demand		Date of completion of this report				
09 March 2004 (09.03.2004)		02	2 June 2004 (02.06.2004)			
Name and mailing address of the IPEA/EP		Authorized officer				
Facsimile No.		Telephone No.				

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

## PCT/EP2003/008623

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2.	thai	internation se elemen the lan	to the language, all the elements marked above were available or furnished to mal application was filed, unless otherwise indicated under this item. Its were available or furnished to this Authority in the following language of a translation furnished for the purposes of international search (under guage of publication of the international application (under Rule 48.3(b)).  Inguage of the translation furnished for the purposes of international preliminational preliminationa	which is: or Rule 23.1(b)).				
3	. Wit	or 55.3						
		contair	ined in the international application in written form.					
		filed together with the international application in computer readable form.						
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١		furnished subsequently to this Authority in written form.  furnished subsequently to this Authority in computer readable form.						
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.						
		The statement that the information recorded in computer readable form is identical to the written sequence listing have been furnished.						
1	ı. [	The ar	mendments have resulted in the cancellation of:					
l	_		the description, pages					
			the claims, Nos.					
1			the drawings, sheets/fig					
1	5. [	This re	report has been established as if (some of) the amendments had not been made in the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).	de, since they have been considered to go				
	in and	this repo d 70.17).	at sheets which have been furnished to the receiving Office in response to an ort as "originally filed" and are not annexed to this report since they c	to not contain amenaments (Rute 70.10				
	** An	y replacei	ment sheet containing such amendments must be referred to under item 1 and	annexed to this report.				

#### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/EP 03/08623

v. 	citations and explanations supporting such statement					
1.	Statement	•				
	Novelty (N)	Claims	1-21	YES		
		Claims		NO		
	Inventive step (IS)	Claims	1-21	YES		

Industrial applicability (IA) Claims \_\_\_\_\_

1-21 YES

NO

NO

2. Citations and explanations

Reference is made to the following document:

Claims

Claims

D1: A scalable subband audio coding scheme for ATM environments, by Wen Jin et al.

Document D1, which is considered to be the prior art closest to the subject matter of claim 1, discloses a device for scalable coding of a spectrum of a signal that includes audio information, the spectrum having binary spectral values; the audio signal is coded in a plurality of scaling layers, and the scaling layers can be decoded separately (see section III).

The subject matter of claim 1 differs from the known device in that it generates at least two scaling sub-layers for the coding of the audio or video signal.

The subject matter of claim 1 is therefore novel (PCT Article 33(2)).

Thus the problem addressed by the present invention is that of devising a scalable coding method that can be used to achieve finer scalability.

The problem is solved by the feature specified in claim 1 whereby the signal is coded in a plurality of scaling layers (see claim 1, lines 8 to 32).

PCT/EP 03/08623

The solution proposed in claim 1 involves an inventive step (PCT Article 33(3)) because none of the prior art documents suggest coding an audio and/or video signal in scaling sub-layers.

Claims 2 to 16 are dependent on claim 1 and therefore also meet the PCT requirements in respect of novelty and inventive step.

Claim 17 relates to a device for scalable decoding. The features correspond to those of claim 1, and therefore claim 17 also meets the PCT requirements in respect of novelty and inventive step.

Claim 18 is dependent on claim 17 and therefore also meets the PCT requirements in respect of novelty and inventive step.

Claim 19 relates to a method for scalable coding. The features correspond to those of claim 1, and therefore claim 19 also meets the PCT requirements in respect of novelty and inventive step.

Claim 20 relates to a method for scalable decoding. The features correspond to those of claim 1, and therefore claim 20 also meets the PCT requirements in respect of novelty and inventive step.

Claim 21 relates to a computer program with a program code for carrying out the methods of claim 19 and 20. Claim 21 therefore also meets the PCT requirements in respect of novelty and inventive step.